



Developed from a pool of equal amounts of RNA from developing embryos sampled at 14, 21, 28 and 35 days after pollination of the Illinois High Oil Maize Strain Cycle (HSC) with the Illinois Hybrid Maize Strain Cycle (HSC) for 50 generations and/or 100 generations from the 1890s era open pollinated variety Burr's White.

127 a 115 c 131 g 127 t

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Query Match      17 74; Score 483; DP 8; Length 500;
Best Local Similarity 98.0%; Pref. NO. 5, 2e-82; Mismatches 10; Indels 0; Gaps 0;
Matches 489; Conservative 0;

Oy 1802 ctttgatgctcttcttcctgagctgctcctgagctgctcctgagctgatt 1881
Db 2 CTTGGGGGCTCTCTTTCAGAGGCTGCTCCCTAGTATCTCTGCCACCTATGATGT 61

Oy 1882 gtagctggaggagcctcaagctcttctgcaatgtagtgatagagagaca 1941
Db 1 gtagctggaggagcctcaagctcttctgcaatgtagtgatagagagaca 1941

Oy 62 gctgctgctgagagagcctctatgctcttctgagctgtagtgatgtagcagca 121
Db 2 GCTGCTGCTGAGAGAGCCTCTATGCTCTTCTGAGCTGTAGTGATGTAGCAGCA 121

Oy 1942 caaacaatcctcgaagaaagctctgcttcttgagagcattcgaattccaag 2001
Db 2 CAAACAATCCTCGAAGAAAGCTCTGCTTCTTGAGAGCATTCTGAATTCCAAG 2001

Oy 122 CAGAACCTGCGGAGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 181
Db 122 CAGAACCTGCGGAGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 181

Oy 2002 agctcaatcctcgaagaaagctctgagagctgtagtgctgctgagagcattc 2061
Db 2 AGCTCAATCCTCGAAGAAAGCTCTGAGAGCTGTAGTGCTGCTGAGAGCATTCT 2061

Oy 182 GTGCAATATACAGCAATACAGTGTGATGATGATGATGATGATGATGATGATG 241
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Oy 2062 agctcaatcctcgaagaaagctctgagagctgtagtgctgctgagagcattc 2121
Db 2 AGCTCAATCCTCGAAGAAAGCTCTGAGAGCTGTAGTGCTGCTGAGAGCATTCT 2121

Oy 242 CAGGCTACATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 301
Db 242 CAGGCTACATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 301

Oy 2122 ggttcwagagagagcctctgagcagcagctgctgagctctcaacagatgatt 2181
Db 2122 ggttcwagagagagcctctgagcagcagctgctgagctctcaacagatgatt 2181

Oy 302 GCTCCAGATGAGGAGCAGCTCTTGATGATCAGCAGCTCTTGATGATGATGAT 361
Db 302 GCTCCAGATGAGGAGCAGCTCTTGATGATCAGCAGCTCTTGATGATGATGAT 361

Oy 2182 gagcgggtctcaagatctctcaagagagagcaactctcagagcctaagaagtg 2241
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Oy 362 GAGCGGCTCACAGATCTCTGTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 421
Db 362 GAGCGGCTCACAGATCTCTGTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 421

Oy 2242 aggttgagagcaaatatttgatggagatcgaagatcgaagctgtaaaactcca 2301
Db 2242 aggttgagagcaaatatttgatggagatcgaagatcgaagctgtaaaactcca 2301

Oy 422 AGGTTGTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 481
Db 422 AGGTTGTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 481

Oy 2302 tctggagaaacatggttct 2320
Db 2302 tctggagaaacatggttct 2320

Oy 482 TCTGGAGAACATGTTGTTCT 500
Db 482 TCTGGAGAACATGTTGTTCT 500

RESULT 2
BG415676
LOCUS BG415676.1 500 bp mRNA linear 897 23-OCT-2001
DEFINITION BG415676.1 (normal) Hordeum vulgare cDNA clone HVSMBK00076156, mRNA
sequence.
ACCESSION BG415676.1 GI:13321227
KEYWORDS EST.
SOURCE
ORGANISM Hordeum vulgare
Bakeryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliopsida; Liliopsida; Poales; Poaceae; Pooideae
subtribe Triticinae.
(1 bases 1 to 638).
AUTHORS Ming R., Close, T. J., Kleinbols, A., Wise, R., Kamengere, J. von
Rohr, P., Otto, C., Simon, K., Zhang, D., Begum, D., Frisch, D., Yu, Y.,
Henry, D., Palmer, M., Rambo, T., Simons, J., Oates, R., and Main, D.
PUBLISHED 2001
FOR LAYVIEW genomic. Xerox tests/pericarp cDNA library
JOURNAL Unpublished (2001)

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Sokal lab, mailroom89  
Sokal primer: ATTACCTCCTCATTAAGGG  
High quality sequence rbp: 634.  
Accession: F04111876  
1. 638

FEATURES  
source

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/lab\_host="F04111876"  
plants were raised from seeds in a Controlled Environments  
growth chamber maintained in continuous light at 16C, and  
watered daily. The plants were grown at the University of  
Washington State University, Pullman, WA (Kamengere,  
von Megelein). Total RNA was prepared, poly(A) RNA was  
partially digested with RNase H, and ligated with a  
phasmids in the T3 clone lab at the University of  
California, Riverside (Ahluwalia, Polin, Choi, Close, Jensen,  
and Main). The cDNA library was constructed and screened  
picked at the Clemson University Genomics Institute (CUGI)  
(Begum, Palmer, Frisch, Atkins and Ming). Plasmid DNA  
was extracted and sequenced. The sequencing was  
performed at CUGI (Ming, Tu, Frisch, Henry, Simons, Oates  
, Rambo, Main). The sequence has been trimmed to remove  
vector sequence and annotations more details on library  
preparation and sequence analysis see  
http://www.genome.clemson.edu/projects/harley/. To order  
this sequence, please contact the Genomics Institute. Also  
see Close TJ, Ming R, Kleinbols A, Wise R (2001)  
Genetically and physically anchored EST resources for  
Hordeum vulgare. Plant Genome 3:1-11. <http://ehnet.pw.usda.gov/gpages/bn/31/cover.html>.

BASE COUNT 159 a 138 c 157 g 188 t  
ORIGIN

Query Match 15 0%; Score 411.6; DP 10; Length 638.  
Best Local Similarity 70.4%; Pref. NO. 5, 2e-88;

Matches 495; Conservative 0; Mismatches 139; Indels 0; Gaps 0;

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Oy 1483 gtagagagagagagagagagagagagagagagagagagagagagagagagagac 1542
Db 1 GAAGGTGACAGCAAGAAATCTATCCCAAGCTCTGAGGTGATGATGATGATGATG 60

Oy 1543 cctccatcgaagctcctgaggttctcctgagcagcagcctgagcagcctcaaa 1602
Db 61 CCCCCTCCAGAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

Oy 1603 gtagagagagagagagagagagagagagagagagagagagagagagagagac 1662
Db 121 GCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180

Oy 1663 tatgtctctcgaagagagagagagagagagagagagagagagagagagagag 1722
Db 191 TTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 240

Oy 1723 tatgtctctcgaagagagagagagagagagagagagagagagagagagagag 1782
Db 241 TAGGATGAGGCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300

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BASE COUNT      84 a 118 c 101 g 65 t
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Matches 269; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Oy 2517 tggcccgatcaaggaggaatcaatcgaatcgaggaggaatgctctctcttgcgg 2576
Db 308 tggcccgatcaaggaggaatcaatcgaatcgaggaggaatgctctctcttgcgg 249
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Db 248 ggaactgggtactctctggggaagcctacctgggtgaatcgaaggaggtgacctct 189
Oy 2637 gtaccagtgctctcgaattctacctctgttgaggagacactcggggacaggcgaggac 2696
Db 188 gtaccagtgctctcgaattctacctctgttgaggagacactcggggacaggcgaggac 129
Oy 2697 ctctctgttggaacctctcgaggaggt 2726
Db 128 ctctctgttggaacctctcgaggaggt 99

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Search completed: July 15, 2002, 11:32:40  
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[illegible]

















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